

ST. MICHAEL'S SR. SEC. SCHOOL
3, PUSA ROAD, NEW DELHI
CLASS VIII, ASSIGNMENT MID-TERM
(2026-27)

MATHEMATICS

Choose the correct option:

Q1. A number of the form $\frac{p}{q}$ is said to be a rational number if

- a) p and q are integers.
- b) p and q are integers and $q \neq 0$
- c) p and q are integers and $p \neq 0$
- d) p and q are integers and $p \neq 0$ also $q \neq 0$.

Q2. In a pie chart, the total angle at the centre of the circle is

- a) 180°
- b) 360°
- c) 270°
- d) 90°

Q3. Which of the following is the square of an odd number?

- a) 256
- b) 361
- c) 144
- d) 400

Q4. The one's digit of the cube of 23 is

- a) 6
- b) 7
- c) 3
- d) 9

Q5. The value of $(-2)^{2 \times 3 - 1}$ is

- a) 32
- b) 64
- c) -32
- d) -64

Q6. Which of the following is in direct proportion?

- a) One side of a cuboid and its volume.
- b) Speed of a vehicle and the distance travelled in a fixed time interval.
- c) Change in weight and height among individuals.
- d) Number of pipes to fill a tank and the time required to fill the same tank.

Solve the following questions:

Q1. Find five rational numbers between 0 and 1.

Q2. Find the sum of additive inverse and multiplicative inverse of 9.

Q3. A dice is rolled once. What is the probability that the number on top will be

- a) Odd
- b) Greater than 5
- c) A multiple of 3
- d) Less than 1
- e) A factor of 36
- f) A factor of 6

Q4. The monthly income of a family is Rs. 28800. The monthly expenditure of the family on various items is given below:

Item	Rent	Food	Clothing	Education	Savings
Expenditure	8000	10800	5600	3600	800

(in Rs.)					
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Represent the above data by a pie chart.

Q5. Write a pythagorean triplet whose smallest number is 6.

Q6. Evaluate the square root of 22.09 by long division method.

Q7. Using prime factorisation, find the cube root of 5832.

Q8. Find the length of each side of a cube if its volume is 512 cm^3 .

Q9. If $5^{3x-1} \div 25 = 125$, find the value of x.

Q10. Express each of the following in standard form:

a) A Helium atom has a diameter of 0.000000022 cm.

b) Mass of a molecule of hydrogen gas is about 0.0000000000000000000334 tons.

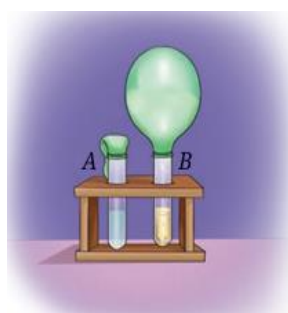
Q11. If x varies inversely as y and x = 20 when y = 600, find y when x = 400.

Q12. The variable x varies directly as y and x = 80 when y is 160. What is y when x is 64?

SCIENCE

Choose the correct option:

Q1. Aanandi took two test tubes and marked them A and B. She put two spoonfuls of sugar solution in each of the test tubes. In test tube B, she added a spoonful of yeast. Then she attached two incompletely inflated balloons to the mouth of each test tube. She kept the set-up in a warm place, away from sunlight. What do you predict will happen after 3 – 4 hours? She observed that the balloon attached to test tube B was inflated. What can be a possible explanation for this?



- Water evaporated in test tube B and filled the balloon with the water vapour.
- The warm atmosphere expanded the air inside the test tube B, which inflated the balloon.
- Yeast produced a gas inside the test tube B which inflated the balloon.
- Sugar reacted with warm air, which produced gas, eventually inflating the balloon.

Q2. A student observes two cells under a microscope.

- Cell A has a cell wall and chloroplast.

- Cell B has a cell membrane but no cell wall.

Which conclusion is most appropriate?

- a) Cell B must be a bacterial cell.
- b) Cell A can prepare its own food whereas Cell B cannot.
- c) Both cells belong to animals.
- d) Cell B contains chloroplasts but they are invisible.

Q3. Which statements about microorganisms are correct?

- I. They are found only in soil.
- II. Some help in food preparation.
- III. Some recycle nutrients.

- a) I only
- b) II only
- c) II and III only
- d) I, II and III

Q4. Which one is the correct order of biological organisation?

- a) Organ → Tissue → Cell → Organism
- b) Cell → Tissue → Organ → Organ System → Organism
- c) Tissue → Cell → Organ System → Organ
- d) Cell → Organ → Tissue → Organism

Q5. Which of the following pairs is incorrectly matched?

Organism	Function
a) Yeast	Bread making
b) Rhizobium	Nitrogen fixation
c) Lactobacillus	Curd formation
d) Virus	Compost formation

Q6. Aman spends nearly 8 hours every day on his mobile phone. He sleeps late, skips breakfast, feels tired in class, and has stopped playing outdoor games.

Which factor is contributing the MOST to his poor health?

- a) Lack of vaccination
- b) Unhealthy lifestyle habits
- c) Communicable disease

d) Genetic disorder

Q7. A village introduces proper sanitation and clean drinking water. Which disease is expected to decrease first?

- a) Cholera
- b) Asthma
- c) Diabetes
- d) Cancer

Q8. Which action contributes to both personal and community health?

- a) Completing the prescribed vaccination schedule
- b) Sharing water bottles
- c) Taking antibiotics without advice
- d) Skipping breakfast

Q9. Common methods of disease transmission include:

a) By air b) By Direct Contact c) By contaminated food and water d) All of these

Q10. Which statements about non-communicable diseases are correct?

I. They spread from person to person.

II. Lifestyle plays an important role.

III. Diabetes is an example.

- a) I only
- b) II only
- c) II and III only
- d) I, II and III

Q11. Ritika prepared an electromagnet using an iron nail, a coil of insulated wire and one electric cell. It could lift only two paper clips. She then replaced the single cell with two cells without changing anything else. What will most likely happen?

- a) The electromagnet will stop working.
- b) The electromagnet will become stronger and lift more clips.
- c) The electromagnet will become a permanent magnet.
- d) The iron nail will lose its magnetic property permanently.

Q12. An electrician uses copper wire instead of nichrome wire in an electric heater. What is the most likely consequence?

- a) The heater will produce more heat.
- b) The heater will produce less heat because copper has lower resistance.
- c) Copper will behave like a magnet.
- d) Copper will stop current flow.

Q13. Which of the following statements are correct?

- I. A current-carrying wire produces a magnetic field.
- II. The magnetic field disappears when current stops.
- III. Every conductor becomes a permanent magnet after current flows.

- a) I only
- b) I and II only
- c) II and III only
- d) I, II and III

Q14. A rechargeable battery is preferred in an electric vehicle because it

- a) is lighter than air.
- b) can be charged and reused multiple times.
- c) never loses charge.
- d) produces current without chemical reactions.

Q15. Which statement is INCORRECT?

- a) The heating effect depends on the current flowing.
- b) Nichrome wire has higher resistance than copper.
- c) Rechargeable batteries can be reused many times.
- d) Pure water acts as an electrolyte in a Voltaic cell.

Q16. Ritu adds salt to water and stirs it well. The salt disappears and she cannot see it anymore. What kind of mixture is this?

- a) Non-uniform mixture
- b) Uniform mixture
- c) Compound
- d) None of these

Q17. Diffusion in gases is faster than in liquids because:

- a) Gas particles are close together
- b) Gas particles do not move
- c) Gas particles move faster and have more space
- d) Gas particles are heavier

Q18. After blowing out a candle, Aarav observed solid wax at the base, liquid wax near the wick, and vapour rising. His teacher showed him a diagram of particle arrangements in solids, liquids, and gases. Which of the following correctly matches the states of wax with particle arrangement?

- a) Solid – loosely packed; Liquid – tightly packed; Gas – fixed
- b) Solid – free to move; Liquid – fixed; Gas – vibrating
- c) Solid – tightly packed; Liquid – loosely packed; Gas – free to move
- d) Solid – vibrating; Liquid – stationary; Gas – compressed

Q19. Which of the following is non-metal?

- a) Copper

- b) Aluminium
- c) Sulfur
- d) Iron

Q20. Interparticle forces of attraction are strongest in

- a) Gas
- b) Solid
- c) Liquid
- d) None of these

Q21. Aman mixed iron filings with sulfur powder. He used a magnet and easily separated the iron. This shows that the mixture

- a) formed a new substance
- b) retained the properties of its components
- c) became a compound
- d) underwent a chemical change

Q22. A teacher asks students to identify a mixture. Which option should they choose?

- a) Gold
- b) Water
- c) Air
- d) Oxygen

Q23. A student compares a brick, water, and oxygen gas. Which property is common to all three?

- a) They have a fixed shape.
- b) They occupy space and have mass.
- c) They can be compressed easily.
- d) They flow easily.

Q24. A student spills water on the floor. After some time, the floor becomes dry. The water changed from

- a) solid to liquid.
- b) gas to liquid.
- c) liquid to gas.
- d) gas to solid.

Q25. Which arrangement correctly shows **increasing intermolecular space**?

- a) Solid → Liquid → Gas
- b) Gas → Liquid → Solid
- c) Liquid → Gas → Solid
- d) Gas → Solid → Liquid

Answer the following questions:

- Q1. Why do farmers cultivate legumes before cereal crops?
Q2. Draw a well labelled diagram of bacterial cell.
Q3. Explain why antibiotics should never be taken for viral infections.
Q4. Explain the role of immunity in protecting our body from diseases.
Q5. An electric iron and an electric fan both use electric current. Explain how the useful effect of current differs in these appliances.
Q6. Why does the compass needle return to its original position when the switch is turned OFF?
Q7. What happens to the particles of sugar when it dissolves in water, and why can't we see them anymore?
Q8. How does temperature affect the motion of particles of matter?
Q9. What are minerals? Give examples and uses.
Q10. Name the gas that turns lime water milky. Why does this happen? Give the equation.

SOCIAL SCIENCE

Q.1 MULTIPLE CHOICE QUESTIONS:

1. There are _____ High Courts in our country.
a. 20 b. 25 c. 30 d. 35
2. Given below are two statements marked as Assertion (A) and Reason (R).
Read the statements and choose the correct option.

Assertion (A): In India, the citizens cannot move court if they feel their rights have been violated.

Reason (R): The Judiciary upholds and enforces the Fundamental Rights of the Indian citizens.

- a. Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
b. Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).
c. Assertion (A) is true but Reason (R) is false.
d. Assertion (A) is false but Reason (R) is true.
3. Governor General _____ set up a madrasah in Calcutta.
a. William Jones b. Thomas Macaulay c. Warren Hastings d. James Mill
4. Leaching is most common in the –
a. top soil b. sub soil c. parent rock d. rock fragments
5. Which of the following trees is found in the equatorial region?
a. Mahogany b. Ash c. Elm d. Stone Pine

Q.2 SHORT ANSWER QUESTIONS:

1. What did the British stand to gain through the system of Subsidiary Alliance?
2. Why are low lands more suitable for farming than the highlands?
3. Distinguish between Lok Sabha and Rajya Sabha. Mention three points of difference.
4. What do you understand by collective responsibility of the Council of Minister?
5. What do you know about the jurisdiction of the High Court?

Q.3 LONG ANSWER QUESTIONS:

1. Discuss in detail the functions of the Parliament.

OR

- Describe the executive and Emergency powers of the President.
2. What administrative changes took place after 1858?

OR

- List the economic and political causes of the Uprising of 1857.
3. Discuss in detail the various factors which influence agriculture.

OR

Distinguish between intensive and extensive farming.

Q.4 MAP SKILLS:

On an outline political map of India **locate any 3** of the given 'Centres of Uprising' and label the following:

- a. Bareilly b. Meerut c. Gwalior d. Arrah

ENGLISH

Q1. Read the poem given below and answer the questions that follow:

The Path Beyond the Hill

Beyond the hill where tall trees sway,
A narrow path winds on its way.
It crosses fields of golden grain,
Then disappears beyond the rain.

I walked along that quiet track,
With no one near and no way back.
The clouds were dark, the wind was strong,
Yet something urged me to move along.

I saw a stream of crystal light,
That danced beneath the fading night.
A little bird began to sing,
As though it welcomed early spring.

The path was steep, the journey long,
But hope within me made me strong.
I learned that every road we take
Can lead to choices we must make.

So when I face an unknown way,
I will not fear what lies ahead.
For every step, both slow and small,
May help me rise whenever I fall.

Questions:

1. Why was the speaker hesitant or uncertain while walking along the path?
2. What does the line "something urged me to move along" suggest about the speaker's attitude?
3. What is the rhyming scheme of the first four lines of the poem?
4. How did the little bird contribute to the mood of the poem?
5. Explain the meaning of:
 "But hope within me made me strong."

6. Identify the poetic device used in the following line:
"A little bird began to sing, / As though it welcomed early spring."
7. Find words from the poem that mean:
 a) becoming less bright – _____
 b) a decision or selection – _____
8. Choose the correct option:
 A. Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
 B. Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
 C. Assertion is true, but Reason is false.
 D. Assertion is false, but Reason is true.
 Assertion (A): The speaker continues walking despite the difficult conditions.
 Reason (R): The speaker is motivated by hope and an inner determination to move forward.
9. Choose the correct option:
 A. Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
 B. Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
 C. Assertion is true, but Reason is false.
 D. Assertion is false, but Reason is true.
 Assertion (A): The journey in the poem is completely easy and comfortable.
 Reason (R): The path is described as steep and the journey as long.
10. Fill in the blank:
 The speaker's _____ helped him remain strong during the difficult journey.

HINDI

प्रश्न 1. गद्यांश के आधार पर सही उत्तर के सामने निशान लगाइए -

(पुस्तक में से कोई एक उदाहरण)

प्रश्न 2. निम्न विषयों पर अनुच्छेद लिखिए-

(क) रियलिटी शोज-दूरदर्शन का नया स्वरूप।

(ख) विद्यालय में शिक्षक दिवस।

प्रश्न 3. निम्न विषयों पर पत्र लिखिए -

(क) दिल्ली परिवहन के महा प्रबंधक के नाम पत्र लिखकर बस कंडक्टर के अभद्र व्यवहार की शिकायत कीजिए।

(ख) मेट्रो-ट्रेन में ज़रूरी कागज़ातों वाला बैग छूट गया है। उसका पता लगाने के लिए अधिकारी को पत्र लिखिए।

प्रश्न 4. गृहकार्य न करने पर छात्र व अध्यापक के मध्य संवाद लिखे।

प्रश्न 5. "यदि मैं पत्रकार होता" विषय पर लघुकथा लिखे।

प्रश्न 6. निम्न प्रश्नों के उत्तर लिखिए -

प्रश्न 7. निम्न शब्दों के वर्णों को अलग-अलग करे - विद्वान , कृपा

प्रश्न 8. निम्न शब्दों के तीन-तीन अर्थ लिखे (अनेकार्थी शब्द) - गुरु, आराम, अंक

प्रश्न 9. निम्नलिखित शब्दों के तीन-तीन पर्यायवाची शब्द लिखे - उन्नति, अश्व, आदर

प्रश्न 10. निम्न शब्दों के अर्थ लिखे - (एकार्थी शब्द) वस्त्र, मरीज, डर

प्रश्न 11. निम्न शब्दों से उपसर्ग एवं मूल शब्द छाँटकर लिखे - विवाद, अनावश्यक, अनजान, अपमान

प्रश्न 12. निम्न प्रत्ययों का उपयोग कर एक-एक शब्द बनाइए - अक, वाला, औना, आई

- प्रश्न 13. सामासिक पद का विग्रह करते हुए भेद भी लिखे - जीवन-मरण, पंचानन
 प्रश्न 14. निम्न का समस्त पद और भेद भी लिखे - नीला है जो कंठ, देशप्रेमी
 प्रश्न 15. दीर्घ संधि एवं गुण संधि में अंतर स्पष्ट करते हुए उदाहरण के साथ लिखे।
 प्रश्न 16. पद किसे कहते हैं? पदबंध के कितने भेद होते हैं?
 प्रश्न 17. निम्न मुहावरों के अर्थ एवं वाक्य में प्रयोग करे-ईद का चाँद होना, एड़ी-चोटी का ज़ोर लगाना।
 प्रश्न 18. काव्यांश को पढ़कर उत्तर लिखिए। Page 63
 प्रश्न 19. गद्यांश को पढ़कर उत्तर लिखिए। Page 52
 प्रश्न 20. निम्न शब्दों के अर्थ लिखे - भोर, भेद, अपेक्षा, निहारना, आलोक, अनमोल, बेहतर, कदापि
 प्रश्न 21. मौखिक उत्तर दीजिए -
 1. संसार का चक्र कैसा है?
 2. दुकानदार ने बेंजी को क्रिसमस पेड़ का कितना मूल्य बताया?
 3. यशोदा ने हँसकर क्या किया?
 4. अब्राहम लिंकन ने किसकी दुनिया को मनमोहक कहा है?
 5. हमें प्रत्येक पल को मन से क्यों जीना चाहिए?

प्रश्न 22. उत्तर लिखिए-

1. समय को व्यर्थ क्यों नहीं गँवाना चाहिए?
2. आशय स्पष्ट कीजिए- 'उसे हारना सिखाएँ और जीत में खुश होना भी सिखाएँ'।
3. माखन न खाने के लिए श्रीकृष्ण किन शब्दों में अपनी सफाई प्रकट कर रहे हैं?
4. कल का रूप कैसे बाल जाता है?
5. दुकान से निकलकर बेंजी कहाँ गया?

प्रश्न 23. भाषा बोध - निम्न प्रश्नों के उत्तर लिखिए -

1. दिए गए शब्दों में लगे उपसर्ग से दो-दो अन्य शब्द बनाइए - प्रकाश, अनुमति
2. दिए गए शब्दों का वाक्यों में प्रयोग कीजिए - जल्दी-जल्दी, एक-एक
3. दिए गए शब्दों के तत्सम रूप लिखिए - मोल, सांझ
4. बहु वचन में बदलो - पक्षी, प्रजा
5. दिए गए शब्दों के विलोम रूप लिखे - विश्वास, निर्मल

SANSKRIT

प्रश्न 1. निम्न के शब्द रूप लिखिए -

मुनि - प्रथम, द्वितीय, पञ्चमी सप्तमी विभक्ति: के सभी वचन लिखे।

मति - तृतीय, चतुर्थी, षष्ठी, सप्तमि विभक्ति: के सभी वचन लिखे।

प्रश्न 2. निम्न के धातु रूप लिखिए -

भू-धातु - लट् लकार, लङ् लकार, विधिलिङ् के सभी रूप लिखे।

गम्-धातु - लोट् लकार, लृट् लकार, लट् लकार के सभी रूप लिखे।

प्रश्न 3. किन्ही पाँच रंगों के नाम संस्कृत में लिखिए।

प्रश्न 4. निम्न संख्या को संस्कृत में लिखे - 31, 33, 35, 37, 39, 41, 42, 44, 50

प्रश्न 5. निम्न शब्दों के अर्थ लिखिए - गृहीत्वा, वैयाकरणाः, नमामः, ललाटे

प्रश्न 6. अपनी पाठ्य पुस्तक में से कोई दो श्लोक लिखिए।

प्रश्न 7. निम्न श्लोकों के अर्थ लिखिए -

1. अनेके प्रदेशाः अनेके च वेषाः
अनेकानि रूपाणि भाषा अनेकाः।

परं यत्र सर्वे वयं भारतीयाः
प्रियं भारतं तत् सदा रक्षणीयम्॥

2. वयं भारतीयाः स्वदेशं नमामः
परं धर्ममेकं सदा मानयामः।
तदर्थं धनं जीवनं चार्पयामः
प्रियं भारतं मे सदा वन्दनीयम्॥

प्रश्न 8. निम्न वाक्यों का हिंदी में अनुवाद लिखे।

परं सत्यमेवैतत् यत् मस्तिष्कमापि भवति यन्त्रेषु। 'जयतु भारतं, जयतु भारतम् इति उद्धोषयथ' ?
मित्रैः सह छलं न कर्तव्यम्। संसर्गजा दोषगुणाः भवन्ति। सर्वेस्वस्थाः भवन्तु।

प्रश्न 9. निम्न प्रश्नों के उत्तर लिखिए -

- 1 वेदाः कति सन्ति?
- 2 किं सर्वथा दर्शनीयम्?
- 3 इदं भारतं केन तुल्यम्?
- 4 कुत्र विज्ञानस्य चमत्कारान् पश्यामः?
- 5 एकतः कति छात्राः प्रविशन्ति?

प्रश्न 10. मेल करे -

गृहे
परस्परं विवादो
अनुजेषु
मातृदेवो
अनुशासनम्

स्नेहः कर्तव्यः
स्नेहेन स्थातव्यम्
न कर्तव्यः
आवश्यकम्
भव

प्रश्न 11. विभक्ति और वचन लिखे -

खगोले _____
प्राचीना _____
विज्ञानस्य _____

प्रश्न 12. पुरुष और वचन लिखे -

आगच्छतः _____
करोमि _____
भवथ _____
कथयन्ति _____

प्रश्न 13. रिक्त स्थान भरे -

- 1 मा कश्चिद् _____ भवेत्।
- 2 सर्वे जनाः _____ भवन्तु।
- 3 सुवण्या _____ भवति।
- 4 सदा _____ प्राक् उत्तिष्ठेत्।

COMPUTER

Answer the following Questions:-

1. What is a while-else loop and when is it used?
 2. Explain the purpose of the for-else loop in Python.
 3. What is the significance of the range() function in Python?
 4. Describe the role of the continue statement in loops.
 5. What are the three types of Tkinter layout management methods?
 6. Explain the main types of Network Topologies
 7. What is the use of Presenter view mode in Canva Presentation ?
- State True or False:- (Q 8 to Q 12)
8. A while-else loop runs an instruction code when the comparing value reaches the limit of the condition value.
 9. The else clause of a for loop gets executed only if the loop encounters a break statement.
 10. The range() function in Python is used to perform an action for a specific number of times.
 11. The continue statement can be used with both while and for loops.
 12. Checkbutton() widget allows the user to select only one option from multiple choices.

GENERAL KNOWLEDGE

Choose the correct answer

- 1) Chakhwi , Mwkhwai and Mituru are the dishes of -----
- 2) Some -----and lichens get water by soaking up dew.
- 3) ----- gas is responsible for Global warning
- 4) Autobiography of Dr A P J Abdul kalam is -----
- 5) ----- is the full form of N C E R T
- 6) Queen Elizabeth was the monarch of -----
- 7) ----- is the largest producer of silver in the world
- 8) -----was the first Civilization to use Barter system
- 9) The nick name of Cochin is known as the -----
- 10) garden of spice is known as the -----city of India

MORAL SCIENCE

- Q1. What are the causes of low self esteem?
- Q2. How can you build a healthy self esteem?
- Q3. Who said the following-“To do what others cannot do is talent. To do what talent cannot do is genius.”
- Q4. What do you mean by commitment?
- Q5. Mention some qualities of a committed person.
- Q6. Who are dreamers?
- Q7. What is the message learnt from the lesson-‘New Way of Looking At’.
- Q8. Do we need to treat different people in different ways? Explain your reasons.
- Q9. Narrate an experience where you showed your committed qualities.
- Q10. Draw a poster on the topic- ‘Motivation’.

